06-06-05

1 IFW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Fallaux et al.

Serial No.: 10/038,271

Filed: October 23, 2001

For: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT ADENOVIRUS TO BE USED IN GENE THERAPY

Confirmation No.: 8381

Examiner: D. Nguyen

Group Art Unit: 1632

Attorney Docket No.: 2578-3833.6US

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: EL994850431US

Date of Deposit with USPS: June 3, 2005

Person making Deposit: Steve Wong

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of U.S. patents are not being submitted pursuant to M.P.E.P. 609 III A(2). Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

U.S. Patent Documents

U.S. Patent No.	Publication Date	Patentee
4,487,829	12/11/84	Sharp et al.
4,517,686	05/21/85	Ruoslahti et al.

4,578,079	03/25/86	Ruoslahti et al.
4,589,881	05/20/86	Pierschbacher et al.
4,593,002	06/03/86	Dulbecco
4,792,525	12/20/88	Ruoslahti et al.
4,797,368	01/10/89	Carter et al.
4,956,281	09/11/90	Wallner et al.
5,024,939	06/18/91	Gorman
5,096,815	03/17/92	Ladner et al.
5,166,320	11/24/92	Wu et al.
5,198,346	03/30/93	Ladner et al.
5,204,445	04/20/93	Plow et al.
5,223,394	06/29/93	Wallner
5,223,409	06/29/93	Ladner et al.
5,240,846	08/31/93	Collins et al.
5,246,921	09/21/93	Reddy et al.
5,332,567	07/26/94	Goldenberg
5,349,053	09/20/94	Landolfi
5,403,484	04/04/95	Ladner et al.
5,436,146	07/25/95	Shenk et al.
5,443,953	08/22/95	Hansen et al.
5,474,935	12/12/95	Chatterjee et al.
5,521,291	05/28/96	Curiel et al.
5,534,423	07/09/96	Plasson et al.
5,543,328	08/06/96	Mcclelland et al.
5,547,932	08/20/96	Curiel et al.
5,552,311	09/03/96	Sorscher et al.
5,559,099	09/24/96	Wickham et al.
5,571,698	11/05/96	Ladner et al.
5,622,699	04/22/97	Ruoslahti et al.
5,712,136	01/27/98	Wickham et al.
5,731,190	03/24/98	Wickham et al.
5,756,086	05/26/98	Mcclelland et al.
5,770,442	06/23/98	Wickham et al.
5,846,782	12/08/98	Wickham et al.
5,849,561	12/15/98	Falck-Pedersen
5,856,152	01/05/99	Wilson et al.
5,871,727	02/16/99	Curiel
5,871,982	02/16/99	Wilson et al.
5,877,011	03/02/99	Armentano et al.
5,922,315	07/13/99	Roy
6,057,155	05/02/00	Wickham et al.
6,100,086	08/08/00	Kaplan et al.
6,127,525	10/03/00	Crystal et al.
6,287,857	09/11/01	O'riordan et al.
6,486,133	11/26/02	Herlyn et al.

6,492,169	12/10/02	Vogels et al.
6,669,942	12/30/03	Perricaudet et al.

Foreign Patent Documents

Document No.	Publication Date	Patentee
EP 259212	08/11/87	Transgene S.A.
WO 91/00360	01/10/91	Medarex, Inc.
WO 91/05871	05/02/91	Medarex, Inc.
WO 91/05805	05/02/91	Trustees of Dartmouth College
WO 92/02553	02/20/92	Delta Bi-Otechnology Limited
WO 92/13081	08/06/92	British Technology Group PLC
WO 93/03769	03/04/93	U.S. Dept. of Health and Human Services
WO 93/06223	04/01/93	Centre National De La Recherche Scientifique
WO 93/07282	04/15/93	Boehringer Ingelheim International GMBA
WO 93/07283	04/15/93	Boehringer Ingelheim International GMBA
WO 94/10323	05/11/94	Imperial Cancer Research Technology Limited
WO 94/15644	07/21/94	Imperial Cancer Research Technology Limited
WO 94/17832	08/18/94	The Scripps Research Institute
WO 94/24299	10/27/94	Boehringer Ingelheim International GMBA
WO 94/26915	11/24/94	The Regents of the University of Michigan
WO 95/05201	02/23/95	Genetic Therapy, Inc.
WO 95/06745	03/09/95	Max-Planck-Gesellschaft Zur Förderung Der Wissenschaften E.U.
WO 95/14785	06/01/95	Rhone-Poulenc Rorer S.A.
WO 95/16037	06/15/95	Menarini Ricerche Sud S.p.A.
WO 95/21259	08/10/95	U.S. Dept. of Health and Human Services
WO 95/26412	10/05/95	The UAB Research Foundation
WO 95/31187	11/23/95	McMaster University
WO 95/31566	11/23/95	Viagene, Incorporated
WO 96/00326	01/04/96	Reinert, Gary, L., Sr.
WO 96/00790	01/11/96	Rhone-Poulenc Rorer S.A.
WO 96/07739	03/14/96	Neurocrine Biosciences, Incorporated
WO 96/10087	04/04/96	Rhone-Poulenc Rorer S.A.
WO 96/12030	04/25/96	Rhone-Poulenc Rorer S.A.
WO 96/13598	05/09/96	The Trustees of the University of Pennsylvania
WO 96/13597	05/09/96	The Trustees of the University of Pennsylvania

WO 96/14837	05/23/96	Genetic Therapy, Inc.
WO 96/17073	06/06/96	Takara Shuzo Co., LTD.
WO 96/ 18740	06/20/96	Rhone-Poulenc Rorer S.A.
WO 96/24453	08/15/96	Withers, Graham, Rex
WO 96/26281	08/29/96	Genvec, Inc. Cornell Research Foundation, Inc.
WO 96/35798	11/14/96	Introgene B.V.
WO 97/00326	01/03/97	Introgene B.V.
WO 97/12986	04/10/97	Cornell Research Foundation, Inc.
WO 97/20575	06/12/97	The University of Alabama at Birmingham Research Foundation
WO 97/38723	10/23/97	Immusol Incorporated
WO 98/07865	02/26/98	Genvec, Inc.
WO 98/11221	03/19/98	Dana-Farber Cancer Institute
WO 98/13499	04/02/98	The Scripps Research Institute
WO 98/22609	05/28/98	Genzyme Corporation
WO 98/ 32842	07/30/98	Genetic Therapy, Inc.
WO 98/40509	09/17/98	Genvec, Inc.
WO 98/49300	11/05/98	Collateral Theraputics
WO 98/50053 A1	11/12/98	Genetic Therapy, Inc.
EP 1016726	12/30/98	Introgene B.V.
WO 99/32647	07/01/99	Introgene B.V.
EP 1067188	07/08/99	Introgene B.V.
WO 99/47180A1	09/23/99	Genzyme Corporation
WO 99/55132	11/04/99	Introgene B.V.
WO 99/58646	11/18/99	Genera S.P.A.
EP 1020529	11/19/99	Introgene B.V.
WO 00/03029	01/20/00	Introgene B.V.
WO 00/24730 A2	05/04/00	The University of British Columbia
WO 00/31285	06/02/00	Introgene B.V.
WO 00/52186	09/08/00	Introgene B.V.
WO 00/70071 A1	11/23/00	Introgene B.V.
WO 01/04334	01/18/01	Introgene B.V.
WO 01/90158 A1	11/29/01	Crucell Holland B.V.
WO 02/24730	03/28/02	Crucell Holland B.V.
WO 02/27006	04/04/02	Crucell Holland B.V.

Other Documents

ABRAHAMSEN et al., "Construction of an Adenovirus Type 7a E1A$^-$ Vector," Journal of Virology, Nov. 1997, P. 8946-8951 Vol. 71, No. 11.

ALBIGES-RIZO et al., "Human Adenovirus Serotype 3 Fiber Protein," Journal of Biological Chemistry, 266(6), 3961-3967 (1991).

ANDERSON, Nature, "Human gene therapy," Apr. 1998, Vol. 392, pp. 25-30.

ATHAPPILLY et al., "The Refined Crystal Structure of Hexon, the Major Coat Protein of Adenovirus Type 2, at 2□9 A Resolution," J. Mol. Biol. (1994) 242, 430-455.

BAI et al., "Mutations That Alter an Arg-Gly-Asp (RGD) Sequence in the Adenovirus Type 2 Penton Base Protein Abolish Its Cell-Rounding Activity and Delay Virus Reproduction in Flat Cells," Journal of Virology, 67(9), 5198-5205 (1993).

BAILEY et al., "Phylogenetic Relationships among Adenovirus Serotypes," Virology, 205, 439-452 (1994).

BALL-GOODRICH et al., "Parvoviral Target Cell Specificity: Acquisition of Fibrotropism by a Mutant of the Lymphotropic Strain of Minute Virus of Mice Involves Multiple Amino Acid Substitutions within the Capsid," Virology, 184, 175-186 (1991).

BASLER et al., Sequence of the immunoregulatory early region 3 and flanking sequences of adenovirus type 35, 1996, Gene 170:249-254.

BASLER et al., "Subgroup B Adenovirus Type 35 Early Region 3 mRNAs Differ from Those of the Subgroup C Adenoviruses," Virology 215, 165-177 (1996).

BATRA et al., "Receptor-mediated gene delivery employing lectin-binding specificity," Gene Therapy, 1, 255-260 (1994).

BERENDSEN, Herman J.C., A Glimpse of the Holy Grail, Science, 1998, Vol. 282, pp. 642-43.

BOURSNELL et al., "In vitro construction of a recombinant adenovirus Ad2:Ad5," Gene, 13, 311-317 (1981).

BRIDGE et al., "Adenovirus Early Region 4 and Viral DNA Synthesis," Virology 193, 794-801 (1993).

BRODY et al., "Adenovirus-Mediated in Vivo Gene Transfer," Annals New York Academy of Sciences pp.90-100.

CAILLET-BOUDIN et al., "Functional and Structural Effects of an Ala to Val Mutation in the Adenovirus Serotype 2 Fibre," J. Mol. Biol., 217, 477-486 (1991).

CHIU et al., Folding & Design, "Optimizing energy potentials for success in protein tertiary structure prediction," May 1998, 3:223-228.

CHROBOCZEK et al., Adenovirus Fiber, Current Topics in Microbiology and Immunology 1995;199 (Pt 1) pp. 163-200.

CHU et al., "Cell targeting with retroviral vector particles containing antibodyBenvelope fusion proteins," Gene Therapy, 1, 292-299 (1994).

COTTON et al., "Transferrin-polycation-mediated introduction of DNA into human leukemic cells: Stimulation by agents that affect the survival of transfected DNA or modulate transferring receptor levels," Proc. Natl. Acad. Sci. USA, 87, 4033-4037 (1990).

COTTON et al., "High-efficiency receptor-mediated delivery of small and large (48 kilobase gene constructs using the endosome-disruption activity of defective or chemically inactivated adenovirus particles," Proc. Natl. Acad. Sci. USA, 89, 6094-6098 (1992).

CRAWFORD-MIKSZA et al., "Adenovirus Serotype Evolution Is Driven by Illegitimate Recombination in the Hypervariable Regions of the Hexon Protein," Virology, 224, 357-367 (1996).

CRAWFORD-MIKSZA et al., "Analysis of 15 Adenovirus Hexon Proteins Reveals the Location and Structure of Seven Hypervariable Regions Containing Serotype-Specific Residues," Journal of Virology, Mar. 1996, p. 1836-1844.

CROMPTON et al., "Expression of a foreign epitope on the surface of the adenovirus hexon," J. Gen. Virol., 75(1), 133-139 (1994).

CRYSTAL, Ronald G., "Transfer of Genes to Humans: Early Lessons and Obstacles to Success," Science, 270, 404-410 (1995).

CURIEL et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNABPolylysine Complexes," Human Gene Therapy, 3, 147-154 (1992).

CURIEL et al., "Adenovirus enhancement of transferring-polylysine-mediated gene delivery," Proc. Natl. Acad. Sci. USA, 88, 8850-8854 (1991).

DE JONG et al., "Adenovirus Isolates From Urine of Patients with Acquired Immunodeficiency Syndrome," The Lancet, June 11, 1983 pp. 1293-1296.

DE JONG et al., Adenoviruses from Human Immunodeficiency Virus-Infected Individuals, Including Two Strains That Represent New Candidate Serotypes Ad50 and Ad51 of Species B1 and D, Respectively, Journal of Clinical Microbiology, Dec. 1999, p. 3940-45, Vol. 37, No. 12, American Society for Microbiology.

DEFER et al., "Human Adenovirus-Host Cell Interactions: Comparative Study with Members of Subgroups B and C," Journal of Virology, 64(8), 3661-3673 (1990).

DEONARAIN, "Ligand-targeted receptor-mediated vectors for gene delivery," (1998) Expert Opin. Ther. Pat. 8: 53-69.

DIJKEMA et al., "Transformation of Primary Rat Kidney Cells by DNA Fragments of Weakly Oncogenic Adenoviruses," Journal of Virology, Dec. 1979, p. 943-950.

DOUGLAS J T et al.: "Strategies to accomplish targeted gene delivery to muscle cells employing tropism-modified adenoviral vectors" Neuromusclar Disorders, Pergamon Press, GB, vol. 7, July 1997 (1997-07), pages 284-298, XP002079944 ISSN: 0960-8966.

DUPUIT et al., "Regenerating Cells in Human Airway Surface Epithelium Represent Preferential Targets for Recombinant Adenovirus," Human Gene Therapy, 6, 1185-1193 (1995).

ECK et al., "Gene-Based Therapy," (1996) Goodman & Gillman's The Pharmacological Basis of Therapeutics, Mc-Graw-Hill, New York, N.Y., pp. 77-101.

ETIENNE-JULAN et al., "The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cellBvirus linker," Journal of General Virology, 73, 3251-3255 (1992).

FALGOUT et al., "Characterization of Adenovirus Particles Made by Deletion Mutants Lacking the Fiber Gene," Journal of Virology, 62(2), 622-625 (1988).

FLOMENBERG et al., "Molecular Epidemiology of Adenovirus Type 35 Infections in Immunocompromised Hosts," The Journal Of Infectious Diseases Vol. 155, No. 6, June 1987.

FRANCKI et al., "Classification and Nomenclature of Viruses," Fifth Report of the International Committee on Taxonomy of Viruses; Virology Division of the International Union of Microbiology Societies pp. 140-143.

GALL et al., "Construction and characterization of Hexon-Chimeric Adenoviruses: Specification of adenovirus serotype," 72(12) Journal of Virology 10260-64 (1998).

GALL et al., "Adenovirus Type 5 and 7 Capsid Chimera: Fiber Replacement Alters Receptor Tropism without Affecting Primary Immune Neutralization Epitopes," Journal Of Virology, Apr. 1996, p. 2116-2123.

GEORGE et al., "Gene therapy progress and prospects: adenoviral vectors," Gene Therapy (2003) 10, 1135-1141.

GORECKI, "Prospects and problems of gene therapy: an update," (2001) Expert Opin. Emerging Drugs 6(2): 187-98.

GREBER et al., "Stepwise Dismantling of Adenovirus 2 during Entry into Cells," Cell, 75, 477-486 (1993).

GREEN et al., "Evidence for a repeating cross-sheet structure in the adenovirus fibre," EMBO Journal, 2(8), 1357-1365 (1983).

GRUBB et al., Inefficient gene transfer by adenovirus vector to cystic fibrosis airway epithelia of mice and humans, Nature, 371, 802-806 (1994).

GURUNATHAN et al., American Association of Immunologists, "CD40 Ligand/Trimer DNA Enhances Both Humoral and Cellular Immune Responses and Indicates Protective Immunity to Infectious and Tumor Challenge," 1998, 161:4563-4571.

HAN et al., "Ligand-directed retroviral targeting of human breast cancer cells," Proc. Natl. Acad. Sci. USA, 92, 9747-9751 (1995).

HE et al., "A simplified system for generating recombinant adenoviruses," Proc. Natl. Acad. Sci. USA Vol. 95, pp. 2509-2514, March 1998.

HENRY et al., "Characterization of the Knob Domain of the Adenovirus Type 5 Fiber Protein Expressed in *Escherichia coli*," Journal of Virology, 68(8), 5239-5246 (1994).

HIDAKA, CHISA, et al., "CAR-dependent and CAR-independent pathways of adenovirus vector-mediated gene transfer and expression in human fibroblasts," 103(4) The Journal of Clinical Investigation 579-87 (February 1999).

HIERHOLZER et al., "Adenoviruses from Patients with AIDS: A Plethora of Serotypes and A Description of Five New Serotypes of Subgenus D (Types 43-47)," The Journal Of Infectious Diseases Vol. 158, No. 4 October 1988.

HONG et al., "The Amino Terminus of the Adenovirus Fiber Protein Encodes the Nuclear Localization Signal," Virology, 185(2), 758-767 (1991).

HORVATH et al., "Nonpermissivity of Human Peripheral Blood Lymphocytes to Adenovirus Type 2 Infection," Journal of Virology, 62(1), 341-345 (1988).

HUANG et al., "Upregulation of Integrins v3 and v5 on Human Monocytes and T Lymphocytes Facilitates Adenovirus-Mediated Gene Delivery," Journal of Virology, 69(4), 2257-2263 (1995).

JOLLY; viral vector systems for gene therapy, 1994, Cancer Gene Therapy, vol. 1, No. 1: 51-64.

KANG et al., "Molecular Cloning And Physical Mapping Of The Dna Of Human Adenovirus Type 35," Acta Microbiologica Hungarica 36 (1), pp. 67-75 (1989).

KANG et al., "Relationship Of E1 And E3 Regions Of Human Adenovirus 35 To Those Of Human Adenovirus Subgroups A, C And D," Acta Microbiologica Hungarica 36 (4), pp. 445-457 (1989).

KARAYAN et al., "Oligomerization of Recombinant Penton Base of Adenovirus Type 2 and Its Assembly with Fiber in Baculovirus-Infected Cells," Virology, 202, 782-795 (1994).

KASS-EISLER et al., "Quantitative determination of adenovirus-mediated gene delivery to rat cardiac myocytes *in vitro* and *in vivo*," Proc. Natl. Acad. Sci. USA, 90, 11498-11502 (1993).

KMIEC, "Gene Therapy," American Scientist, Vol. 87, pp.240

KOMORIYA et al., "The Minimal Essential Sequence for a Major Cell Type-specific Adhesion Site (CS1) within the Alternatively Spliced Type III Connecting Segment Domain of Fibronectin Is Leucine-Aspartic Acid-Valine,: Journal of Biological Chemistry, 266(23), 15075-15079 (1991).

KRASNYKH et al.: "Generation Of Recombinant Adenovirus Vectors With Modified Fibers For Altering Viral Tropism" Journal Of Virology, The American Society For Microbiology, US, vol. 70, no. 10, 1 October 1996 (1996-10-01), pages 6839-6846, XP002067518 ISSN: 0022-538X.

LATTANZI, LAURA, et al., "High Efficiency Myogenic Conversion of Human Fibroblasts by Adenoviral Vector-mediated *MyoD* Gene Transfer," 101(10) J. Clin. Invest. 2119-28 (May 1998).

LEE et al., "The constitutive expression of the immunomodulatory gp 19k protein in $E1^-$, $E3^-$ adenoviral vectors strongly reduces the host cytotoxic T cell response against the vector," Gene Therapy (1995) 2, 256-262.

LEVRERO et al., "Defective and nondefective adenovirus vectors for expressing foreign genes in vitro and in vivo," Gene, 101 (1991) 195-202.

LI et al., "Genetic Relationship between Thirteen Genome Types of Adenovirus 11, 34, and 35 with Different Tropisms," Intervirology 1991;32:338-350.

LIU et al., Molecular Basis of the inflammatory response to adenovirus vectors. Gene Therapy (2003 10, 935-40.

MARAVEYAS et al., Targeted Immunotherapy B An update with special emphasis on ovarian cancer," Acta Oncologica, 32(7/8), 741-746 (1993).

MASTRANGELI et al., "Sero-Switch" Adenovirus-Mediated *In Vivo* Gene Transfer: Circumvention of Anti-Adenovirus Humoral Immune Defenses Against Repeat Adenovirus Vector Administration by Changing the Adenovirus Serotype," Human Gene Therapy, 7, 79-87 (1996).

MATHIAS et al., "Multiple Adenovirus Serotypes Use v Integrins for Infection," Journal of Virology, 68(10), 6811-6814 (1994).

MAUTNER et al., "Recombination in Adenovirus: DNA Sequence Analysis of Crossover Sites in Intertypic Recombinants," Virology, 131, 1-10 (1983).

MAUTNER et al., "Recombination in Adenovirus: Analysis of Crossover Sites in Intertypic Overlap Recombinants," Virology, 139, 43-52, (1984).

Merriam-Webster Dictionary (on line) retrieved from the internet<URL:htpp://www. m-w.com/cgi-bin/dictionary, "derive," 2002.

MICHAEL et al., "Addition of a short peptide ligand to the adenovirus fiber protein," Gene Therapy, 2, 660-668 (1995).

MICHAEL et al., "Binding-incompetent Adenovirus Facilitates Molecular Conjugate-mediated Gene Transfer by the Receptor-mediated Endocytosis Pathway," Journal of Biological Chemistry, 268(10), 6866-6869 (1993).

MILLER et al., "Targeted vectors for gene therapy," FASEB Journal, 9, 190-199 (1995).

NEDA et al., "Chemical Modification of an Ecotropic Murine Leukemia Virus Results in Redirection of Its Target Cell Specificity," Journal of Biological Chemistry, 266(22), 14143-14146 (1991).

NEMEROW et al., "The Role of αv Integrins in Adenovirus Infection," Biology of Vitronectins and their Receptors, 177-184 (1993).

NEMEROW et al., "Adenovirus entry into host cells: a role for α_v integrins," Trends In Cell Biology, 4, 52-55 (1994).

NOVELLI et al., "Deletion Analysis of Functional Domains in Baculovirus-Expressed Adenovirus Type 2 Fiber," Virology, 185, 365-376 (1991).

PETERANDERL et al., "Trimerization of the Heat Shock Transcription Factor by a Triple-Stranded -Helical Coiled-Coil," Biochemistry, 31, 12272-12276 (1992).

PRINCE, "Gene Transfer: A Review Of Methods And Applications," Pathology (1998), 30, pp. 335-347.

PRING-ÅKERBLOM et al., "Sequence Characterization and Comparison of Human Adenovirus Subgenus B and E Hexons," Virology, 212, 232-36 (1995).

RAGOT et al., "Efficient adenovirus-mediated transfer of a human minidystrophin gene to skeletal muscle of mdx mice" Nature, Macmillan Journals Ltd. London, GB, vol. 361, no. 6413, 1993, pages 647-650, XP002162515 ISSN: 0028-0836.

REA et al., "Highly efficient transduction of human monocyte-derived dendritic cells with subgroup B fiber-modified adenovirus vectors enhances transgene-encoded antigen presentation to cytotoxic T cells." Journal Of Immunology, (2000 APR 15) 166 (8) 5236-44., - 15 April 2001 (2001-04-15) XP002192775.

ROBBINS et al., "Viral Vectors for Gene Therapy," Pharmacol. Ther. Vol. 80, No. 1, pp. 35-47, 1998.

ROBERTS et al., "Three-Dimensional Structure of the Adenovirus Major Coat Protein Hexon," Science, 232, 1148-51 (1986).

ROELVINK et al., "The Coxsackievirus-Adenovirus Receptor Protein Can Function as a Cellular Attachment Protein for Adenovirus Serotypes from Subgroups A, C, D, E, and F, Journal Of Virology, Oct. 1998, P. 7909-7915, Vol. 72, No. 10.

ROMANO, "Gene Transfer in Experimental Medicine," Drug & News Perspectives, Vol. 16, No. 5, 2003, 13 pages.

RUSSELL et al., "Retroviral vectors displaying functional antibody fragments," Nucleic Acids Research, 21(5), 1081-1085 (1993).

RUSSELL, "Replicating Vectors for Gene Therapy of Cancer: Risks, Limitations and Prospects," European Journal of Cancer, Vol. 30A, No. 8, pp. 1165

SABOURIN et al., "The molecular regulation of myogenesis," (2000) Clin. Genet. 57(1): 16-25.

SCHNURR et al., "Two New Candidate Adenovirus Serotypes," Intervirology 1993;36:79-83.

SCHULICK et al., "Established Immunity Precludes Adenovirus-mediated Gene Transfer in Rat Carotid Arteries," The Journal of Clinical Investigation Volume 99, Number 2, January 1997, 209-219.

SEGERMAN et al.: "Adenovirus types 11p and 35p show high binding efficiencies for committed hematopoietic cell lines and are infective to these cell lines" Journal of Virology, The American Society for Microbiology, US, vol. 74, no. 3, February 2000 (200-02), pages 1457-1467, XP002161682 ISSN: 0022-538X.

SHAYAKHMETOV et al., "Efficient Gene Transfer into Human $CD34^+$ Cells by a Retargeted Adenovirus Vector," Journal Of Virology, Mar. 2000, p. 2567-2583.

SIGNÄS et al., "Adenovirus 3 Fiber Polypeptide Gene: Implications for the Structure of the Fiber Protein," Journal of Virology, 53(2), 672-678 (1985).

SILVER et al., "Interaction of Human Adenovirus Serotype 2 with Human Lymphoid Cells," Virology, 165, 377-387 (1988).

STEVENSON et al.; Selective Targeting of Human Cells by a Chimeric Adenovirus Vector Containing a Modified Fiber Protein, 1997, Journal of Virology, Vol. 71: 4782-4790.

STEWART et al., "Difference imaging of adenovirus: bridging the resolution gap between X-ray crystallography and electron microscopy," EMBO Journal, 12(7), 2589-2599 (1993).

STRATFORD-PERRICAUDET LD et al.: "Widespread Long-Term Gene Transfer To Mouse Skeletal Muscles And Heart" Journal Of Clinical Investigation, New York, NY, US, vol. 90 no. 2, August 1992 (1992-08), ISSN: 0021-9738.

TOOGOOD et al., "The Adenovirus Type 40 Hexon: Sequence, Predicated Structure and Relationship to Other Adenovirus Hexons," J. gen. Virol (1989), 70, 3203-3214.

VALDERRAMA-LEON et al., "Restriction Endonuclease Mapping of Adenovirus 35, a Type Isolated from Immunocompromised Hosts," Journal Of Virology, Nov. 1985, p. 647-650.

VERMA et al., Nature, "Gene therapy-promises, problems and prospects," Sep. 1997, Vol. 389, pp. 239-242.

WADELL, "Molecular Epidemiology of Human Adenoviruses," Microbiology and Immunology, Vol. 110 pp.191-220.

WAGNER et al., "Coupling of adenovirus to transferrinBpolylysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression of transfected genes," Proc. Natl. Acad. Sci. USA, 89, 6099-6103 (1992).

WATSON et al., "An Antigenic Analysis of the Adenovirus Type 2 Fibre Polypeptide," Journal of Virology, 69, 525-535 (1988).

WICKHAM et al., "Integrins $\nu\beta3$ and $\nu\beta5$ Promote Adenovirus Internalization but Not Virus Attachment," Cell, 73, 309-319 (1993).

WICKHAM et al., "Integrin $\nu\beta5$ Selectively Promotes Adenovirus Mediated Cell Membrane Permeabilization," Journal of Cell Biology, 127(1), 257-264 (1994).

WICKHAM et al.: "Increased In Vitro and In Vivo Gene Transfer by Adenovirus Vectors Containing Chimeric Fiber Proteins," Journal of Virology, Nov. 1997, p. 8221-8229.

ZHONG et al.: "Recombinant Advenovirus Is An Efficient And Non-Pertubing Genetic Vector For Human Dendritic Cells" European Journal Of Immunology, Weinheim, DE, vol. 29, no. 3, 1999, pages 964-972, XP000938797 ISSN: 0014-2980.

This Supplemental Information Disclosure Statement is filed after the mailing date of the first Office Action on the merits subsequent to the filing of a Request for Continued Examination.

The fee pursuant to 37 C.F.R. § 1.17(p) is enclosed.

Respectfully submitted,

Allen C. Turner
Registration No. 33,041
Attorney for Applicant(s)
TRASKBRITT, P.C.
P.O. Box 2550
Salt Lake City, Utah 84110-2550
Telephone: 801-532-1922

Date: June 2, 2005
ACT/bv

Enclosures: Form PTO/SB/08
Copy of documents cited
Check in the amount of $180.00

Document in ProLaw

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet | | of | 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number: Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,487,829	12/11/84	Sharp et al.	
		4,517,686	05/21/85	Ruoslahti et al.	
		4,578,079	03/25/86	Ruoslahti et al.	
		4,589,881	05/20/86	Pierschbacher et al.	
		4,593,002	06/03/86	Dulbecco	
		4,792,525	12/20/88	Ruoslahti et al.	
		4,797,368	01/10/89	Carter et al.	
		4,956,281	09/11/90	Wallner et al.	
		5,024,939	06/18/91	Gorman	
		5,096,815	03/17/92	Ladner et al.	
		5,166,320	11/24/92	Wu et al.	
		5,198,346	03/30/93	Ladner et al.	
		5,204,445	04/20/93	Plow et al.	
		5,223,394	06/29/93	Wallner	
		5,223,409	06/29/93	Ladner et al.	
		5,240,846	08/31/93	Collins et al.	
		5,246,921	09/21/93	Reddy et al.	
		5,332,567	07/26/94	Goldenberg	
		5,349,053	09/20/94	Landolfi	
		5,403,484	04/04/95	Ladner et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		EP 259212	08/11/87	Transgene S.A.		
		WO 91/00360	01/10/91	Medarex, Inc.		
		WO 91/05871	05/02/91	Medarex, Inc.		
		WO 91/05805	05/02/91	Trustees of Dartmouth College		
		WO 92/02553	02/20/92	Delta Bi-Otechnology Limited		
		WO 92/13081	08/06/92	British Technology Group PLC		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number: Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,436,146	07/25/95	Shenk et al.	
		5,443,953	08/22/95	Hansen et al.	
		5,474,935	12/12/95	Chatterjee et al.	
		5,521,291	05/28/96	Curiel et al.	
		5,534,423	07/09/96	Plasson et al.	
		5,543,328	08/06/96	Mcclelland et al.	
		5,547,932	08/20/96	Curiel et al.	
		5,552,311	09/03/96	Sorscher et al.	
		5,559,099	09/24/96	Wickham et al.	
		5,571,698	11/05/96	Ladner et al.	
		5,622,699	04/22/97	Ruoslahti et al.	
		5,712,136	01/27/98	Wickham et al.	
		5,731,190	03/24/98	Wickham et al.	
		5,756,086	05/26/98	Mcclelland et al.	
		5,770,442	06/23/98	Wickham et al.	
		5,846,782	12/08/98	Wickham et al.	
		5,849,561	12/15/98	Falck-Pedersen	
		5,856,152	01/05/99	Wilson et al.	
		5,871,727	02/16/99	Curiel	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		WO 93/03769	03/04/93	U.S. Dept. of Health and Human Services		
		WO 93/06223	04/01/93	Centre National De La Recherche Scientifique		
		WO 93/07282	04/15/93	Boehringer Ingelheim International GMBA		
		WO 93/07283	04/15/93	Boehringer Ingelheim International GMBA		
		WO 94/10323	05/11/94	Imperial Cancer Research Technology Limited		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,871,982	02/16/99	Wilson et al.	
		5,877,011	03/02/99	Armentano et al.	
		5,922,315	07/13/99	Roy	
		6,057,155	05/02/00	Wickham et al.	
		6,100,086	08/08/00	Kaplan et al.	
		6,127,525	10/03/00	Crystal et al.	
		6,287,857	09/11/01	O'riordan et al.	
		6,486,133	11/26/02	Herlyn et al.	
		6,492,169	12/10/02	Vogels et al.	
		6,669,942	12/30/03	Perricaudet et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		WO 94/15644	07/21/94	Imperial Cancer Research Technology Limited		
		WO 94/17832	08/18/94	The Scripps Research Institute		
		WO 94/24299	10/27/94	Boehringer Ingelheim International GMBA		
		WO 94/26915	11/24/94	The Regents of the University of Michigan		
		WO 95/05201	02/23/95	Genetic Therapy, Inc.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		WO 95/06745	03/09/95	Max-Planck-Gesellschaft Zur Förderung Der Wissenschaften E.U.		
		WO 95/14785	06/01/95	Rhone-Poulenc Rorer S.A.		
		WO 95/16037	06/15/95	Menarini Ricerche Sud S.p.A.		
		WO 95/21259	08/10/95	U.S. Dept. of Health and Human Services		
		WO 95/26412	10/05/95	The UAB Research Foundation		
		WO 95/31187	11/23/95	McMaster University		
		WO 95/31566	11/23/95	Viagene, Incorporated		
		WO 96/00326	01/04/96	Reinert, Gary, L., Sr.		
		WO 96/00790	01/11/96	Rhone-Poulenc Rorer S.A.		
		WO 96/07739	03/14/96	Neurocrine Biosciences, Incorporated		
		WO 96/10087	04/04/96	Rhone-Poulenc Rorer S.A.		
		WO 96/12030	04/25/96	Rhone-Poulenc Rorer S.A.		
		WO 96/13598	05/09/96	The Trustees of the University of Pennsylvania		
		WO 96/13597	05/09/96	The Trustees of the University of Pennsylvania		
		WO 96/14837	05/23/96	Genetic Therapy, Inc.		
		WO 96/17073	06/06/96	Takara Shuzo Co., LTD.		
		WO 96/ 18740	06/20/96	Rhone-Poulenc Rorer S.A.		
		WO 96/24453	08/15/96	Withers, Graham, Rex		
		WO 96/26281	08/29/96	Genvec, Inc. Cornell Research Foundation, Inc.		
		WO 96/35798	11/14/96	Introgene B.V.		
		WO 97/00326	01/03/97	Introgene B.V.		
		WO 97/12986	04/10/97	Cornell Research Foundation, Inc.		
		WO 97/20575	06/12/97	The University of Alabama at Birmingham Research Foundation		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		WO 97/38723	10/23/97	Immusol Incorporated		
		WO 98/07865	02/26/98	Genvec, Inc.		
		WO 98/11221	03/19/98	Dana-Farber Cancer Institute		
		WO 98/13499	04/02/98	The Scripps Research Institute		
		WO 98/22609	05/28/98	Genzyme Corporation		
		WO 98/ 32842	07/30/98	Genetic Therapy, Inc.		
		WO 98/40509	09/17/98	Genvec, Inc.		
		WO 98/49300	11/05/98	Collateral Theraputics		
		WO 98/50053 A1	11/12/98	Genetic Therapy, Inc.		
		EP 1016726	12/30/98	Introgene B.V.		
		WO 99/32647	07/01/99	Introgene B.V.		
		EP 1067188	07/08/99	Introgene B.V.		
		WO 99/47180A1	09/23/99	Genzyme Corporation		
		WO 99/55132	11/04/99	Introgene B.V.		
		WO 99/58646	11/18/99	Genera S.P.A.		
		EP 1020529	11/19/99	Introgene B.V.		
		WO 00/03029	01/20/00	Introgene B.V.		
		WO 00/24730 A2	05/04/00	The University of British Columbia		
		WO 00/31285	06/02/00	Introgene B.V.		
		WO 00/52186	09/08/00	Introgene B.V.		
		WO 00/70071 A1	11/23/00	Introgene B.V.		
		WO 01/04334	01/18/01	Introgene B.V.		
		WO 01/90158 A1	11/29/01	Crucell Holland B.V.		
		WO 02/24730	03/28/02	Crucell Holland B.V.		
		WO 02/27006	04/04/02	Crucell Holland B.V.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
		ABRAHAMSEN et al., "Construction of an Adenovirus Type 7a E1A⁻ Vector," JOURNAL OF VIROLOGY, NOV. 1997, P. 8946-8951 Vol. 71, No. 11.	
		ALBIGES-RIZO et al., "Human Adenovirus Serotype 3 Fiber Protein," Journal of Biological Chemistry, 266(6), 3961-3967 (1991).	
		ANDERSON, Nature, "Human gene therapy," Apr. 1998, Vol. 392, pp. 25-30.	
		ATHAPPILLY et al., "The Refined Crystal Structure of Hexon, the Major Coat Protein of Adenovirus Type 2, at 2•9 A Resolution," J. Mol. Biol. (1994) 242, 430-455.	
		BAI et al., "Mutations That Alter an Arg-Gly-Asp (RGD) Sequence in the Adenovirus Type 2 Penton Base Protein Abolish Its Cell-Rounding Activity and Delay Virus Reproduction in Flat Cells," Journal of Virology, 67(9), 5198-5205 (1993).	
		BAILEY et al., "Phylogenetic Relationships among Adenovirus Serotypes," Virology, 205, 439-452 (1994).	
		BALL-GOODRICH et al., "Parvoviral Target Cell Specificity: Acquisition of Fibrotropism by a Mutant of the Lymphotropic Strain of Minute Virus of Mice Involves Multiple Amino Acid Substitutions within the Capsid," Virology, 184, 175-186 (1991).	
		BASLER et al., Sequence of the immunoregulatory early region 3 and flanking sequences of adenovirus type 35, 1996, Gene 170:249-254.	
		BASLER et al., "Subgroup B Adenovirus Type 35 Early Region 3 mRNAs Differ from Those of the Subgroup C Adenoviruses," VIROLOGY 215, 165-177 (1996).	
		BATRA et al., "Receptor-mediated gene delivery employing lectin-binding specificity," Gene Therapy, 1, 255-260 (1994).	
		BERENDSEN, Herman J.C., A Glimpse of the Holy Grail, Science, 1998, Vol. 282, pp. 642-43.	
		BOURSNELL et al., "In vitro construction of a recombinant adenovirus Ad2:Ad5," Gene, 13, 311-317 (1981).	
		BRIDGE et al., "Adenovirus Early Region 4 and Viral DNA Synthesis," Virology 193, 794-801 (1993).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T [2]
		BRODY et al., "Adenovirus-Mediated in Vivo Gene Transfer," Annals New York Academy of Sciences pp.90-100.	
		CAILLET-BOUDIN et al., "Functional and Structural Effects of an Ala to Val Mutation in the Adenovirus Serotype 2 Fibre," J. Mol. Biol., 217, 477-486 (1991).	
		CHIU et al., Folding & Design, "Optimizing energy potentials for success in protein tertiary structure prediction," May 1998, 3:223-228.	
		CHROBOCZEK et al., Adenovirus Fiber, Current Topics in Microbiology and Immunology 1995;199 (Pt 1) pp. 163-200.	
		CHU et al., "Cell targeting with retroviral vector particles containing antibody-envelope fusion proteins," Gene Therapy, 1, 292-299 (1994).	
		COTTEN et al., "Transferrin-polycation-mediated introduction of DNA into human leukemic cells: Stimulation by agents that affect the survival of transfected DNA or modulate transferrin receptor levels," Proc. Natl. Acad. Sci. USA, 87, 4033-4037 (1990).	
		COTTEN et al., "High-efficiency receptor-mediated delivery of small and large (48 kilobase gene constructs using the endosome-disruption activity of defective or chemically inactivated adenovirus particles," Proc. Natl. Acad. Sci. USA, 89, 6094-6098 (1992).	
		CRAWFORD-MIKSZA et al., "Adenovirus Serotype Evolution Is Driven by Illegitimate Recombination in the Hypervariable Regions of the Hexon Protein," Virology, 224, 357-367 (1996).	
		CRAWFORD-MIKSZA et al., "Analysis of 15 Adenovirus Hexon Proteins Reveals the Location and Structure of Seven Hypervariable Regions Containing Serotype-Specific Residues," Journal of Virology, Mar. 1996, p. 1836-1844.	
		CROMPTON et al., "Expression of a foreign epitope on the surface of the adenovirus hexon," J. Gen. Virol., 75(1), 133-139 (1994).	
		CRYSTAL, Ronald G., "Transfer of Genes to Humans: Early Lessons and Obstacles to Success," Science, 270, 404-410 (1995).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		CURIEL et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," Human Gene Therapy, 3, 147-154 (1992).	
		CURIEL et al., "Adenovirus enhancement of transferring-polylysine-mediated gene delivery," Proc. Natl. Acad. Sci. USA, 88, 8850-8854 (1991).	
		DE JONG et al., "Adenovirus Isolates From Urine of Patients with Acquired Immunodeficiency Syndrome," The Lancet, June 11, 1983 pp. 1293-1296.	
		DE JONG et al., Adenoviruses from Human Immunodeficiency Virus-Infected Individuals, Including Two Strains That Represent New Candidate Serotypes Ad50 and Ad51 of Species B1 and D, Respectively, Journal of Clinical Microbiology, Dec. 1999, p. 3940-45, Vol. 37, No. 12, American Society for Microbiology.	
		DEFER et al., "Human Adenovirus-Host Cell Interactions: Comparative Study with Members of Subgroups B and C," Journal of Virology, 64(8), 3661-3673 (1990).	
		DEONARAIN, "Ligand-targeted receptor-mediated vectors for gene delivery," (1998) Expert Opin. Ther. Pat. 8: 53-69.	
		DIJKEMA et al., "Transformation of Primary Rat Kidney Cells by DNA Fragments of Weakly Oncogenic Adenoviruses," Journal of Virology, Dec. 1979, p. 943-950.	
		DOUGLAS J T et al.: "Strategies to accomplish targeted gene delivery to muscle cells employing tropism-modified adenoviral vectors" Neuromusclar Disorders, Pergamon Press, GB, vol. 7, July 1997 (1997-07), pages 284-298, XP002079944 ISSN: 0960-8966.	
		DUPUIT et al., "Regenerating Cells in Human Airway Surface Epithelium Represent Preferential Targets for Recombinant Adenovirus," Human Gene Therapy, 6, 1185-1193 (1995).	
		ECK et al., "Gene-Based Therapy," (1996) Goodman & Gillman's The Pharmacological Basis of Therapeutics, Mc-Graw-Hill, New York, N.Y., pp. 77-101.	
		ETIENNE-JULAN et al., "The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cell-virus linker," Journal of General Virology, 73, 3251-3255 (1992).	
		FALGOUT et al., "Characterization of Adenovirus Particles Made by Deletion Mutants Lacking the Fiber Gene," Journal of Virology, 62(2), 622-625 (1988).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		FLOMENBERG et al., "Molecular Epidemiology of Adenovirus Type 35 Infections in Immunocompromised Hosts," The Journal Of Infectious Diseases Vol. 155, No. 6, June 1987.	
		FRANCKI et al., "Classification and Nomenclature of Viruses," Fifth Report of the International Committee on Taxonomy of Viruses; Virology Division of the International Union of Microbiology Societies pp. 140-143.	
		GALL et al., "Construction and characterization of Hexon-Chimeric Adenoviruses: Specification of adenovirus serotype," 72(12) Journal of Virology 10260-64 (1998).	
		GALL et al., "Adenovirus Type 5 and 7 Capsid Chimera: Fiber Replacement Alters Receptor Tropism without Affecting Primary Immune Neutralization Epitopes," Journal Of Virology, Apr. 1996, p. 2116-2123.	
		GEORGE et al., "Gene therapy progress and prospects: adenoviral vectors," Gene Therapy (2003) 10, 1135-1141.	
		GORECKI, "Prospects and problems of gene therapy: an update," (2001) Expert Opin. Emerging Drugs 6(2): 187-98.	
		GREBER et al., "Stepwise Dismantling of Adenovirus 2 during Entry into Cells," Cell, 75, 477-486 (1993).	
		GREEN et al., "Evidence for a repeating cross-sheet structure in the adenovirus fibre," EMBO Journal, 2(8), 1357-1365 (1983).	
		GRUBB et al., Inefficient gene transfer by adenovirus vector to cystic fibrosis airway epithelia of mice and humans, Nature, 371, 802-806 (1994).	
		GURUNATHAN et al., American Association of Immunologists, "CD40 Ligand/Trimer DNA Enhances Both Humoral and Cellular Immune Responses and Indicates Protective Immunity to Infectious and Tumor Challenge," 1998, 161:4563-4571.	
		HAN et al., "Ligand-directed retroviral targeting of human breast cancer cells," Proc. Natl. Acad. Sci. USA, 92, 9747-9751 (1995).	
		HE et al., "A simplified system for generating recombinant adenoviruses," Proc. Natl. Acad. Sci. USA Vol. 95, pp. 2509-2514, March 1998.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 10 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		HENRY et al., "Characterization of the Knob Domain of the Adenovirus Type 5 Fiber Protein Expressed in *Escherichia coli*," Journal of Virology, 68(8), 5239-5246 (1994).	
		HIDAKA, CHISA, et al., "CAR-dependent and CAR-independent pathways of adenovirus vector-mediated gene transfer and expression in human fibroblasts," 103(4) The Journal of Clinical Investigation 579-87 (February 1999).	
		HIERHOLZER et al., "Adenoviruses from Patients with AIDS: A Plethora of Serotypes and A Description of Five New Serotypes of Subgenus D (Types 43-47)," The Journal Of Infectious Diseases Vol. 158, No. 4 October 1988.	
		HONG et al., "The Amino Terminus of the Adenovirus Fiber Protein Encodes the Nuclear Localization Signal," Virology, 185(2), 758-767 (1991).	
		HORVATH et al., "Nonpermissivity of Human Peripheral Blood Lymphocytes to Adenovirus Type 2 Infection," Journal of Virology, 62(1), 341-345 (1988).	
		HUANG et al., "Upregulation of Integrins γ3 and γ5 on Human Monocytes and T Lymphocytes Facilitates Adenovirus-Mediated Gene Delivery," Journal of Virology, 69(4), 2257-2263 (1995).	
		JOLLY; viral vector systems for gene therapy, 1994, Cancer Gene Therapy, vol. 1, No. 1: 51-64.	
		KANG et al., "Molecular Cloning And Physical Mapping Of The Dna Of Human Adenovirus Type 35," Acta Microbiologica Hungarica 36 (1), pp. 67-75 (1989).	
		KANG et al., "Relationship Of E1 And E3 Regions Of Human Adenovirus 35 To Those Of Human Adenovirus Subgroups A, C And D," Acta Microbiologica Hungarica 36 (4), pp. 445-457 (1989).	
		KARAYAN et al., "Oligomerization of Recombinant Penton Base of Adenovirus Type 2 and Its Assembly with Fiber in Baculovirus-Infected Cells," Virology, 202, 782-795 (1994).	
		KASS-EISLER et al., "Quantitative determination of adenovirus-mediated gene delivery to rat cardiac myocytes *in vitro* and *in vivo*," Proc. Natl. Acad. Sci. USA, 90, 11498-11502 (1993).	
		KMIEC, "Gene Therapy," American Scientist, Vol. 87, pp.240.	
		KOMORIYA et al., "The Minimal Essential Sequence for a Major Cell Type-specific Adhesion Site (CS1) within the Alternatively Spliced Type III Connecting Segment Domain of Fibronectin Is Leucine-Aspartic Acid-Valine,: Journal of Biological Chemistry, 266(23), 15075-15079 (1991).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 11 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		KRASNYKH et al.: "Generation Of Recombinant Adenovirus Vectors With Modified Fibers For Altering Viral Tropism" Journal Of Virology, The American Society For Microbiology, US, vol. 70, no. 10, 1 October 1996 (1996-10-01), pages 6839-6846, XP002067518 ISSN: 0022-538X.	
		LATTANZI, LAURA, et al., "High Efficiency Myogenic Conversion of Human Fibroblasts by Adenoviral Vector-mediated *MyoD* Gene Transfer," 101(10) J. Clin. Invest. 2119-28 (May 1998).	
		LEE et al., "The constitutive expression of the immunomodulatory gp 19k protein in E1⁻, E3⁻ adenoviral vectors strongly reduces the host cytotoxic T cell response against the vector," Gene Therapy (1995) 2, 256-262.	
		LEVRERO et al., "Defective and nondefective adenovirus vectors for expressing foreign genes in vitro and in vivo," Gene, 101 (1991) 195-202.	
		LI et al., "Genetic Relationship between Thirteen Genome Types of Adenovirus 11, 34, and 35 with Different Tropisms," Intervirology 1991;32:338-350.	
		LIU et al., Molecular Basis of the inflammatory response to adenovirus vectors. Gene Therapy (2003 10, 935-40.	
		MARAVEYAS et al., "Targeted Immunotherapy B An update with special emphasis on ovarian cancer," Acta Oncologica, 32(7/8), 741-746 (1993).	
		MASTRANGELI et al., "Sero-Switch" Adenovirus-Mediated *In Vivo* Gene Transfer: Circumvention of Anti-Adenovirus Humoral Immune Defenses Against Repeat Adenovirus Vector Administration by Changing the Adenovirus Serotype," Human Gene Therapy, 7, 79-87 (1996).	
		MATHIAS et al., "Multiple Adenovirus Serotypes Use v Integrins for Infection," Journal of Virology, 68(10), 6811-6814 (1994).	
		MAUTNER et al., "Recombination in Adenovirus: DNA Sequence Analysis of Crossover Sites in Intertypic Recombinants," Virology, 131, 1-10 (1983).	
		MAUTNER et al., "Recombination in Adenovirus: Analysis of Crossover Sites in Intertypic Overlap Recombinants," Virology, 139, 43-52, (1984).	
		Merriam-Webster Dictionary (on line) retrieved from the internet<URL:htpp://www. m-w.com/cgi-bin/dictionary, "derive," 2002.	
		MICHAEL et al., "Addition of a short peptide ligand to the adenovirus fiber protein," Gene Therapy, 2, 660-668 (1995).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 12 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		MICHAEL et al., "Binding-incompetent Adenovirus Facilitates Molecular Conjugate-mediated Gene Transfer by the Receptor-mediated Endocytosis Pathway," Journal of Biological Chemistry, 268(10), 6866-6869 (1993).	
		MILLER et al., "Targeted vectors for gene therapy," FASEB Journal, 9, 190-199 (1995).	
		NEDA et al., "Chemical Modification of an Ecotropic Murine Leukemia Virus Results in Redirection of Its Target Cell Specificity," Journal of Biological Chemistry, 266(22), 14143-14146 (1991).	
		NEMEROW et al., "The Role of αv Integrins in Adenovirus Infection," Biology of Vitronectins and their Receptors, 177-184 (1993).	
		NEMEROW et al., "Adenovirus entry into host cells: a role for α_v integrins," Trends In Cell Biology, 4, 52-55 (1994).	
		NOVELLI et al., "Deletion Analysis of Functional Domains in Baculovirus-Expressed Adenovirus Type 2 Fiber," Virology, 185, 365-376 (1991).	
		PETERANDERL et al., "Trimerization of the Heat Shock Transcription Factor by a Triple-Stranded -Helical Coiled-Coil," Biochemistry, 31, 12272-12276 (1992).	
		PRINCE, "Gene Transfer: A Review Of Methods And Applications," Pathology (1998), 30, pp. 335-347.	
		PRING-ÅKERBLOM et al., "Sequence Characterization and Comparison of Human Adenovirus Subgenus B and E Hexons," Virology, 212, 232-36 (1995).	
		RAGOT et al.,: "Efficient adenovirus-mediated transfer of a human minidystrophin gene to skeletal muscle of mdx mice" Nature, Macmillan Journals Ltd. London, GB, vol. 361, no. 6413, 1993, pages 647-650, XP002162515 ISSN: 0028-0836.	
		REA et al., "Highly efficient transduction of human monocyte-derived dendritic cells with subgroup B fiber-modified adenovirus vectors enhances transgene-encoded antigen presentation to cytotoxic T cells." Journal Of Immunology, (2000 APR 15) 166 (8) 5236-44., - 15 April 2001 (2001-04-15) XP002192775.	
		ROBBINS et al., "Viral Vectors for Gene Therapy," Pharmacol. Ther. Vol. 80, No. 1, pp. 35-47, 1998.	
		ROBERTS et al., "Three-Dimensional Structure of the Adenovirus Major Coat Protein Hexon," Science, 232, 1148-51 (1986).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 13 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		ROELVINK et al., "The Coxsackievirus-Adenovirus Receptor Protein Can Function as a Cellular Attachment Protein for Adenovirus Serotypes from Subgroups A, C, D, E, and F, Journal Of Virology, Oct. 1998, P. 7909-7915, Vol. 72, No. 10.	
		ROMANO, "Gene Transfer in Experimental Medicine," Drug & News Perspectives, Vol. 16, No. 5, 2003, 13 pages.	
		RUSSELL et al., "Retroviral vectors displaying functional antibody fragments," Nucleic Acids Research, 21(5), 1081-1085 (1993).	
		RUSSELL, "Replicating Vectors for Gene Therapy of Cancer: Risks, Limitations and Prospects," European Journal of Cancer, Vol. 30A, No. 8, pp. 1165	
		SABOURIN et al., "The molecular regulation of myogenesis," (2000) Clin. Genet. 57(1): 16-25.	
		SCHNURR et al., "Two New Candidate Adenovirus Serotypes," Intervirology 1993;36:79-83.	
		SCHULICK et al., "Established Immunity Precludes Adenovirus-mediated Gene Transfer in Rat Carotid Arteries," The Journal of Clinical Investigation Volume 99, Number 2, January 1997, 209-219.	
		SEGERMAN et al.: "Adenovirus types 11p and 35p show high binding efficiencies for committed hematopoietic cell lines and are infective to these cell lines" Journal of Virology, The American Society for Microbiology, US, vol. 74, no. 3, February 2000 (200-02), pages 1457-1467, XP002161682 ISSN: 0022-538X.	
		SHAYAKHMETOV et al., "Efficient Gene Transfer into Human CD34$^+$ Cells by a Retargeted Adenovirus Vector," Journal Of Virology, Mar. 2000, p. 2567-2583.	
		SIGNÄS et al., "Adenovirus 3 Fiber Polypeptide Gene: Implications for the Structure of the Fiber Protein," Journal of Virology, 53(2), 672-678 (1985).	
		SILVER et al., "Interaction of Human Adenovirus Serotype 2 with Human Lymphoid Cells," Virology, 165, 377-387 (1988).	
		STEVENSON et al.; Selective Targeting of Human Cells by a Chimeric Adenovirus Vector Containing a Modified Fiber Protein, 1997, Journal of Virology, Vol. 71: 4782-4790.	
		STEWART et al., "Difference imaging of adenovirus: bridging the resolution gap between X-ray crystallography and electron microscopy," EMBO Journal, 12(7), 2589-2599 (1993).	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B(10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 14 of 14

Complete if Known	
Application Number	10/038,271
Filing Date	October 23, 2001
First Named Inventor	Fallaux et al.
Group Art Unit	1632
Examiner Name	D. Nguyen
Attorney Docket Number	2578-3833.6US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		STRATFORD-PERRICAUDET LD et al.: "Widespread Long-Term Gene Transfer To Mouse Skeletal Muscles And Heart" Journal Of Clinical Investigation, New York, NY, US, vol. 90 no. 2, August 1992 (1992-08), ISSN: 0021-9738.	
		TOOGOOD et al., "The Adenovirus Type 40 Hexon: Sequence, Predicated Structure and Relationship to Other Adenovirus Hexons," J. gen. Virol (1989), 70, 3203-3214.	
		VALDERRAMA-LEON et al., "Restriction Endonuclease Mapping of Adenovirus 35, a Type Isolated from Immunocompromised Hosts," Journal Of Virology, Nov. 1985, p. 647-650.	
		VERMA et al., Nature, "Gene therapy-promises, problems and prospects," Sep. 1997, Vol. 389, pp. 239-242.	
		WADELL, "Molecular Epidemiology of Human Adenoviruses," Microbiology and Immunology, Vol. 110 pp.191-220.	
		WAGNER et al., "Coupling of adenovirus to transferring-polylysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression of transfected genes," Proc. Natl. Acad. Sci. USA, 89, 6099-6103 (1992).	
		WATSON et al., "An Antigenic Analysis of the Adenovirus Type 2 Fibre Polypeptide," Journal of Virology, 69, 525-535 (1988).	
		WICKHAM et al., "Integrins $_{v3}$ and $_{v5}$ Promote Adenovirus Internalization but Not Virus Attachment," Cell, 73, 309-319 (1993).	
		WICKHAM et al., "Integrin v5 Selectively Promotes Adenovirus Mediated Cell Membrane Permeabilization," Journal of Cell Biology, 127(1), 257-264 (1994).	
		WICKHAM et al.: "Increased In Vitro and In Vivo Gene Transfer by Adenovirus Vectors Containing Chimeric Fiber Proteins," Journal of Virology, Nov. 1997, p. 8221-8229.	
		ZHONG et al.: "Recombinant Advenovirus Is An Efficient And Non-Pertubing Genetic Vector For Human Dendritic Cells" European Journal Of Immunology, Weinheim, DE, vol. 29, no. 3, 1999, pages 964-972, XP000938797 ISSN: 0014-2980.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.